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June 3, 1997

Attorney Docket No. INFG0002

Assistant Commissioner for Patents
BOX PATENT APPLICATIONS
Washington, D.C. 20231

65431 U.S. PTO
08/868216
06/03/97

Sir:

Transmitted herewith for filing is the patent application of:

Inventor: Joseph Giordano III

For: **METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING
TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE**

Enclosed are:

- (x) 3 sheets of informal drawings
- (x) A copy of a patent application
- (x) A declaration and power of attorney
- (x) A self addressed postcard
- (x) An Assignment and Recordation Cover Sheet
- (x) Verified Statement Claiming Small Entity Status - Individual
- (x) Verified Statement Claiming Small Entity Status - Business
- (x) An Information Disclosure Statement, 1449 Form and cited references

The filing fee has been calculated as shown below:

Fee Calculation (small entity)					
Fee Items	Claims Filed	Included with Basic Fee	Extra Claims	Fee Rate	Total
Total Claims	23	-20=	3	x\$11.00	\$11.00
Independent Claims	4	-3=	1	x \$40.00	\$40.00
Multiple Dependent Claim Fee (for one or more)				\$130.00	
Assignment Recordation Fee				\$40.00	\$40.00
Basic Filing Fee				\$385.00	\$385.00
Total Fees					\$476.00

A check in the amount of \$476.00 is enclosed to cover the Filing Fee and Assignment Recording Fee. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. INFG0002). A copy of this sheet is enclosed for accounting purposes.

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**METHOD AND APPARATUS FOR ICONIFYING
AND AUTOMATICALLY DIALING TELEPHONE NUMBERS
WHICH APPEAR ON A WEB PAGE**

BACKGROUND OF THE INVENTION

TECHNICAL FIELD

5 The invention relates to electronic communication systems. More particularly,
the invention relates to a system for recognizing and accessing telephone
numbers from databases distributed over an electronic network.

DESCRIPTION OF THE PRIOR ART

10 Electronic networks are increasingly being used to store and distribute a variety
of data. Examples of such electronic networks include the Internet, and intranet
systems. For example, a World Wide Web (Web) page may include text,
graphical displays, video displays, animation, and sounds.

15 The Web is usually accessed via telephone lines by a modem-connected
computer. However, the Web may also be accessed through other devices,
including personal data assistants, fax machines, and Internet-capable
telephones. One telephone that provides Web access is described in M.
Valentaten, B. Moeschen, Y. Friedman, Y.-T. Sidi, Z. Blkowsky, Z. Peleg , *Multi-
20 Mode Home Terminal System that Utilizes a Single Embedded General
Purpose/DSP Processor and a Single Random Access Memory*, U.S. Patent
No. 5,259,940 (October 5, 1993).

A Web page is encoded in Hypertext Markup Language (HTML). An HTML document is a plain-text (ASCII) file that uses tags to denote the various elements in the document. An element may include an attribute, which is additional information that is included between tags.

5

HTML can be used to link text and/or images, such as icons, to another document or section of a document. The user activates a link by clicking on it, and the linked database is directly accessed. Links are used to access related information, or to contact a person or entity. However, information on a Web page must have the requisite HTML tags to be an active link.

10

Web pages often contain additional information such as telephone numbers. These phone numbers appear as informational numbers, for example, for customer service, marketing materials, further information, or for advertising. With the expansion of the Web, Web pages that specialize in providing phone numbers are being created. Such Web pages include directory services, white pages , and yellow pages.

15

However, these phone numbers are provided on the Web as text. HTML cannot be used to dial a telephone number over the Internet. Rather, the user must first search the text to locate a phone number. This search may be by visual inspection or by using a search engine to find a particular reference and its associated phone number. To access a number, the user must manually dial the number, or manually input the number into an automatic dialing program.

20

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Furthermore, access to the Web is typically via a telephone line. If the user has only one telephone line, the user must disconnect from the Web before the phone number can be dialed. The prior art process for obtaining and calling a

phone number listed on the Web is neither time nor cost effective, especially in a business environment.

5 It would therefore be an advantage to provide a system for recognizing telephone numbers from the World Wide Web. It would be a further advantage if such system if the system iconified telephone numbers to permit automatic dialing of a selected number. It would be yet another advantage if such system organized such telephone numbers to facilitate locating a desired number.

10 SUMMARY OF THE INVENTION

The invention provides a method and apparatus for recognizing and accessing telephone numbers that are contained within a Web page. The telephone numbers are iconified to permit automatic dialing of a selected number.

15 The preferred embodiment of the invention is adapted for use with a Web telephone. However, alternative embodiments of the invention are adapted for use with any Internet access device. In the preferred embodiment of the invention, either the server that controls Internet access or a client parses the HTML code of an accessed Web page. A parsing algorithm applied to the text in the HTML document pattern-recognizes telephone numbers having a standard format, such as United States numbers or international phone numbers.

20 Coding is added to iconify recognized telephone numbers. The invention may be configured to iconify all pattern-recognized telephone numbers, or to iconify only those numbers meeting specific criteria. An iconified telephone number is identified on the Internet-capable telephone screen by means including a button surrounding the number, font appearance, underlining, or highlighting.

Iconified telephone numbers may be either automatically or manually stored in an address book for later use.

To call a phone number, the user selects the icon, for example, by clicking on it.

- 5 The Internet-capable phone determines how to initiate the call. If the user has a two-line phone, the Internet-capable telephone initiates a telephone call to the selected number.

10 If the user has a one-line phone, the Internet-capable telephone determines whether the line is available for a call. If the line isn't currently being used, the Internet-capable telephone initiates a voice call to the selected number. However, if the user is connected to the Web, the Internet-capable telephone automatically disconnects from the Internet and initiates a voice call to the selected telephone number. At the conclusion of the telephone call, the
15 Internet-capable telephone may or may not automatically re-connect to the Web.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a flow chart of a method for recognizing and accessing telephone numbers according to the preferred embodiment of the invention;

Fig. 2 is a flow chart of an algorithm for recognizing telephone numbers according to the invention; and

Fig. 3 is a flow chart of a method for accessing telephone numbers according to the invention.

DETAILED DESCRIPTION OF THE INVENTION

The invention provides a method and system for recognizing telephone numbers from a Web page. The telephone numbers are iconified to permit automatic dialing of a selected number.

Fig. 1 is a flow chart of a method for recognizing and accessing telephone numbers, according to the preferred embodiment of the invention. The preferred embodiment of the invention is adapted for use with the Web technique described above. (See U.S. Patent No. 5,250,940.) However, alternative embodiments of the invention are adapted for use with any Internet access device.

The server that controls Internet access for the I-Phone parses the HTML code of an accessed Web page (100). While parsing the HTML, the server examines the text in the HTML document. It should be appreciated that parsing may just as readily be performed on the Client instead of the server. Thus, the following discussion is provided for purposes of example and not as a limitation on the

scope of the invention. An algorithm is applied to this text to pattern-recognize telephone numbers (105). The algorithm is readily modified to recognize any telephone numbers having a standard format, such as United States numbers or international phone numbers.

5

The layout is then rendered in a displayable form (110). In the preferred embodiment of the invention, the server (or the Client) converts the HTML layout to an equivalent of the HTML layout (115). Alternative embodiments of the invention do not convert the HTML layout, or convert the HTML to different browser formats.

10

Where the parsing is performed by the server, the HTML page can be converted into different formats prior to being sent to clients, depending on the client's particular requirements. For example, an HTML page can be converted into formats accessible by a Web telephone, a cellular phone, or a personal digital assistant having a wireless phone. The files are sent to the user's Internet-capable telephone and the Web page is displayed on the telephone's screen (120). All previously-active links and graphical displays supported by the Internet-capable telephone are maintained in this display.

15

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As a part of the HTML conversion, coding is added to iconify recognized telephone numbers (125). The invention may be configured to iconify all pattern-recognized telephone numbers, or to iconify only those numbers meeting specific criteria. In this case, a restrictor is used to direct the pattern-recognition software to only recognize or to ignore certain area codes, not to iconify certain foreign-country telephone numbers, or to iconify only telephone numbers associated with specific text headings such as "Customer Support." In such case the number still appears on the screen display, but is not iconified.

25

In the preferred embodiment of the invention, an iconified telephone number is identified on the Internet-capable telephone screen by a button surrounding the number. However, in alternative embodiments, the telephone number may be identified by different means, such as font appearance, underlining, or highlighting.

Fig. 2 is a flow chart of an algorithm for recognizing telephone numbers, according to the invention. A set of Picture Formats are developed for the patterns of phone numbers. While the software program is reading the HTML document, it reads the text of every character that it comes across and checks to see if the text is a number (200). If the character is non-numeric (225), HTML parsing continues. However, the identification of a number (205) triggers the pattern-recognition algorithm (210). The pattern-recognition algorithm sequentially checks the characters following the identified number to determine if they also are numbers. A series of consecutive numbers is cached (215) and then compared to the Picture Formats (220). A matching format indicates a telephone number.

Telephone numbers can include text, such as hyphens or parentheses, or spaces interspersed with numbers. The patterns in the Picture Formats are therefore defined by those text characters that can be before and in between numbers. Because some text characters void the pattern, the algorithm should take this into account (230). Thus, the algorithm can distinguish, for example, among parentheses surrounding an area code, parentheses surrounding a sentence, and a serial number containing both numbers and text characters.

The patterns in the Picture Formats are also defined by the length of the number string. For example, U.S. area codes are usually three digits, and prefixes are usually three digits, followed by four final digits.

The following is an example of an algorithm that supports U.S. phone numbers.
The algorithm looks for the following patterns:

5 'xxx*xxx';

'x*xxx*xxx';

'xxx**xxx*xxx'; and
10 'x**xxx**xxx*xxx';

where x represents a numeric digit, * represents one character, and **
represents either one or two characters, all of which can only be equal to "-", ") ",
15 ". ", or " ". There is a first character case that is omitted which is a "+" or a "(" .

Fig. 3 is a flow chart of a method for accessing telephone numbers, according to
the invention. To call a phone number, the user selects the icon by clicking on
it, or by another suitable selection method (300). The Internet-capable phone
20 makes the determination of how to initiate the call (305). If the user has a two-
line phone, the Internet-capable telephone initiates a telephone call to the
selected number (335).

If the user has a one-line phone (315), the Internet-capable telephone first
25 determines whether the line is available for a call. If the line is not currently
being used for another telephone call or to connect to the Internet (325), the
Internet-capable telephone initiates a voice call to the selected number (335).
However, if the user is connected to the Web (320), the Internet-capable

telephone automatically, and transparently, disconnects from the Internet session (330) and initiates a voice call to the selected telephone number.

5 The Internet-capable telephone recognizes the conclusion of the call and terminates the telephone call session (340). The Internet-capable telephone may then automatically, and transparently, re-connect to the Web (345). If desired, this feature may be a user-determined preference. In alternative embodiments of the invention, the Internet-capable telephone may be configured to re-connect to the Web only when directed to do so by the user.
10 The Internet-capable telephone is thus seamlessly integrated with the Web.

15 In one embodiment of the invention, the pattern-recognition software is configured to recognize identification. For example, telephone numbers directly following headings such as Technical Support or Sales are recognized and iconified. In one embodiment of the invention, the pattern-recognition algorithm is configured for use with an Internet Telephone directory. The user can then look up a telephone number in such a directory and directly dial the retrieved numbers from the Internet-capable telephone display screen.

20 In an alternative embodiment of the invention, iconified telephone numbers are stored in an address book for later use. For example, HTML tags in an Internet telephone directory that identify a record, e.g. including name and address, that can be added to an address book are recognized. These records can then be either automatically or manually added to the user's address book. In a manual
25 implementation, the Internet-capable telephone displays a button or other type of selection means that the user can select to store a record, including such information as name and address.

Although the invention is described herein with reference to the preferred embodiment, one skilled in the art will readily appreciate that other applications may be substituted for those set forth herein without departing from the spirit and scope of the present invention.

5

For example, in the preferred embodiment of the invention, the translation from HTML is performed by the server. However, in alternative embodiments, the translation is performed by the Internet-capable telephone, or by a computer networked to the Internet-capable telephone. Further, such conversion may be an HTML-to-HTML conversion, for example as provided by a plug-in that operates in a connection with a conventional Web browser, such as Navigator, manufactured by Netscape Communications Corporation of Mountain View, California. Further, pattern recognition may be performed by the Client.

10

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Accordingly, the invention should only be limited by the Claims included below.

CLAIMS

1. A method for identifying telephone numbers within an electronic document during a communications session, comprising the steps of:

parsing said electronic document;
recognizing a telephone number contained within an electronic document; and
converting said telephone number to an iconic representation.

2. The method of Claim 1, wherein said recognizing step comprised the steps of:

transparently disconnecting from said session upon selection of said iconified telephone number and calling said telephone number.

3. The method of Claim 2, further comprising the steps of:
recognizing the termination of said telephone call; and
transparently re-connecting to said session.

4. The method of Claim 1, said parsing step comprising the step of:
applying a parsing algorithm to said electronic document to pattern-recognize a telephone number contained therein.

5. The method of Claim 1, further comprising the step of:
transmitting or displaying said electronic document with said iconified telephone number to a complementary device.

6. The method of Claim 5, wherein said device is an Internet-capable telephone.

7. The method of Claim 1, further comprising the steps of:
5 converting an HTML code representation of a Web page; and
adding a representation that iconifies said recognized telephone number.

8. The method of Claim 7, wherein said HTML code representation is translated to another format at either a server or a client device.

9. The method of Claim 1, wherein said iconified telephone number is identified by one of a button surrounding the number, font appearance, underlining, or highlighting.

10. The method of Claim 1, wherein all recognized telephone numbers are iconified.

11. The method of Claim 1, wherein telephone numbers meeting specific criteria are iconified.

12. The method of Claim 4, said parsing algorithm comprising the steps of:
developing a set of Picture Formats for the patterns of phone numbers;
reading an accessed electronic document;
25 checking every character in the text of said electronic document to determine if it is a numeric character;

applying a pattern-recognition algorithm to sequentially check a character following an identified number to determine if said character is any of numeric or an interspersed text or punctuation character;

caching a series of consecutive numbers; and
 comparing said caches series to said Picture Formats;
wherein a matching format indicates a telephone number.

5 13. The method of Claim 2, wherein said step of transparently disconnecting
from said session upon selection of said iconified telephone number and calling
said telephone number comprises the steps of:

 selecting an iconified telephone number in a display of an access device;
 said access device initiating a telephone call to said selected number if a
10 telephone line or sufficient bandwidth is available;

 said access device transparently disconnecting from said session if a
telephone line is not available, and thereupon initiating a telephone call to said
selected telephone number;

 said access device recognizing the termination of said telephone call;
15 and

 said access device optionally transparently re-connecting to said
session.

20 14. The method of Claim 1, further comprising the step of:
 automatically storing said iconified telephone number in an address
book.

15. A method for recognizing and accessing telephone numbers from a Web
page, comprising the steps of:

25 parsing the HTML code of a Web page accessed during an Internet
session;

 applying a parsing algorithm to the text of said Web page to pattern-
recognize a telephone number contained therein;

 converting said HTML code to a representation of said Web page;

adding to said representation coding to iconify said recognized telephone number;

transmitting said Web page with said iconified telephone number to an access device for display;

5 transparently disconnecting from said Internet session upon selection of said iconified telephone number and calling said telephone number;

recognizing the termination of said telephone call; and

optionally transparently re-connecting to the Internet.

10 16. The method of Claim 14, wherein said parsing algorithm comprises the steps of:

developing a set of Picture Formats for the patterns of phone numbers;

reading an accessed HTML document using a software program on a server;

15 checking every character in the text of said HTML document to determine if it is a numeric character;

using a pattern-recognition algorithm to sequentially check a character following an identified number to determine if said character is any of numeric or an interspersed text or punctuation character;

20 caching a series of consecutive numbers; and

comparing said caches series to said Picture Formats;
wherein a matching format indicates a telephone number.

25 17. The method of Claim 15, wherein said iconified telephone number is identified by one of a button surrounding the number, font appearance, underlining, or highlighting.

18. The method of Claim 15, wherein all recognized telephone numbers are iconified.

19. The method of Claim 15, wherein telephone numbers meeting specific criteria are iconified.

5 20. The method of Claim 15, further comprising the step of automatically storing said iconified telephone number and related information in an address book.

10 21. A system for recognizing and accessing telephone numbers from a Web page, comprising:

a module for parsing the HTML code of a Web page accessed during an Internet session; and

a parsing algorithm used by said module to pattern-recognize a telephone number contained in the text of said Web page.

15 22. The system of Claim 21, further comprising:

a conversion module used to convert said parsed HTML code to a representation of said Web page; and

20 an iconifying module used by said conversion module to add to said representation coding to iconify said recognized telephone number.

23. An access appliance, comprising:

a Web telephone for receiving and displaying a Web page having an iconified telephone number; and

25 a software module used by said Web telephone to transparently disconnect from an Internet session upon selection of said iconified telephone number and to call said telephone number;

wherein said Web telephone software module recognizes the termination of said telephone call and optionally transparently re-connects to the Internet.

**METHOD AND APPARATUS FOR ICONIFYING
AND AUTOMATICALLY DIALING TELEPHONE NUMBERS
WHICH APPEAR ON A WEB PAGE**

5

ABSTRACT

10 A method and apparatus are provided for recognizing and accessing telephone
numbers from a Web page. In the preferred embodiment of the invention, an
HTML code of an accessed Web page is parsed and converted. A parsing
algorithm applied to the text in the HTML document pattern-recognizes
telephone numbers. Coding is added to iconify the recognized telephone
15 numbers. The user's Internet-capable telephone displays the iconified
telephone numbers. All previously-active links and graphical displays
supported by the Internet-capable telephone are maintained in this display. To
call a phone number, the user selects the icon, and the Internet-capable phone
determines how to initiate the call. For a two-line phone, the Internet-capable
telephone initiates a telephone call to the selected number. For a one-line
20 phone, the Internet-capable telephone determines whether the line is available
for a call. If the line is not currently being used, the Internet-capable telephone
initiates a voice call to the selected number. However, if the user is connected to
the Web, the Internet-capable telephone optionally transparently disconnects
from the Internet and initiates a voice call to the selected telephone number. At
25 the conclusion of the telephone call, the Internet-capable telephone optionally
transparently re-connects to the Web.

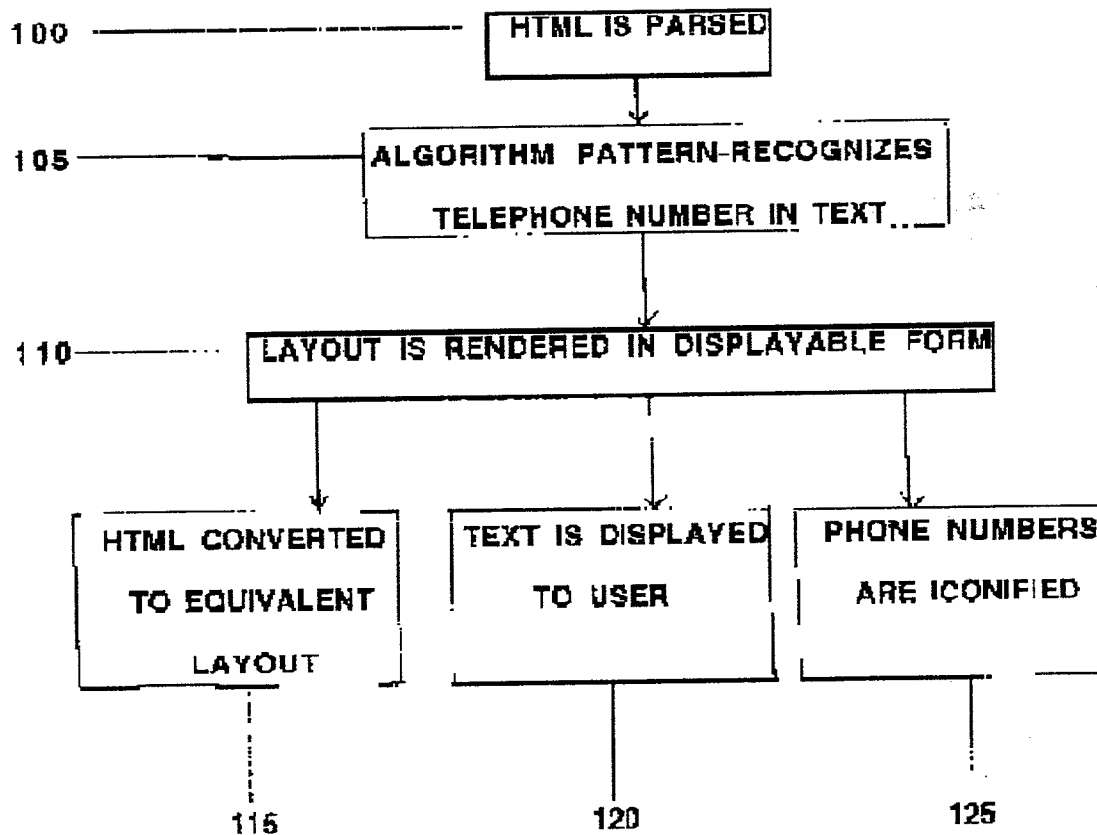


Fig. 1

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
White collar	45.1%
Blue collar	54.9%
Income (USD/month)	
< 1000	12.3%
1000-2000	35.7%
2000-3000	28.9%
> 3000	23.1%
Health insurance	
Yes	89.4%
No	10.6%
Comorbidities	
Hypertension	42.1%
Diabetes	18.5%
Cholesterol	31.2%
Smoking status	
Current smoker	15.3%
Former smoker	22.7%
Non-smoker	62.0%
Alcohol consumption	
Regular	8.9%
Occasional	25.4%
Never	65.7%

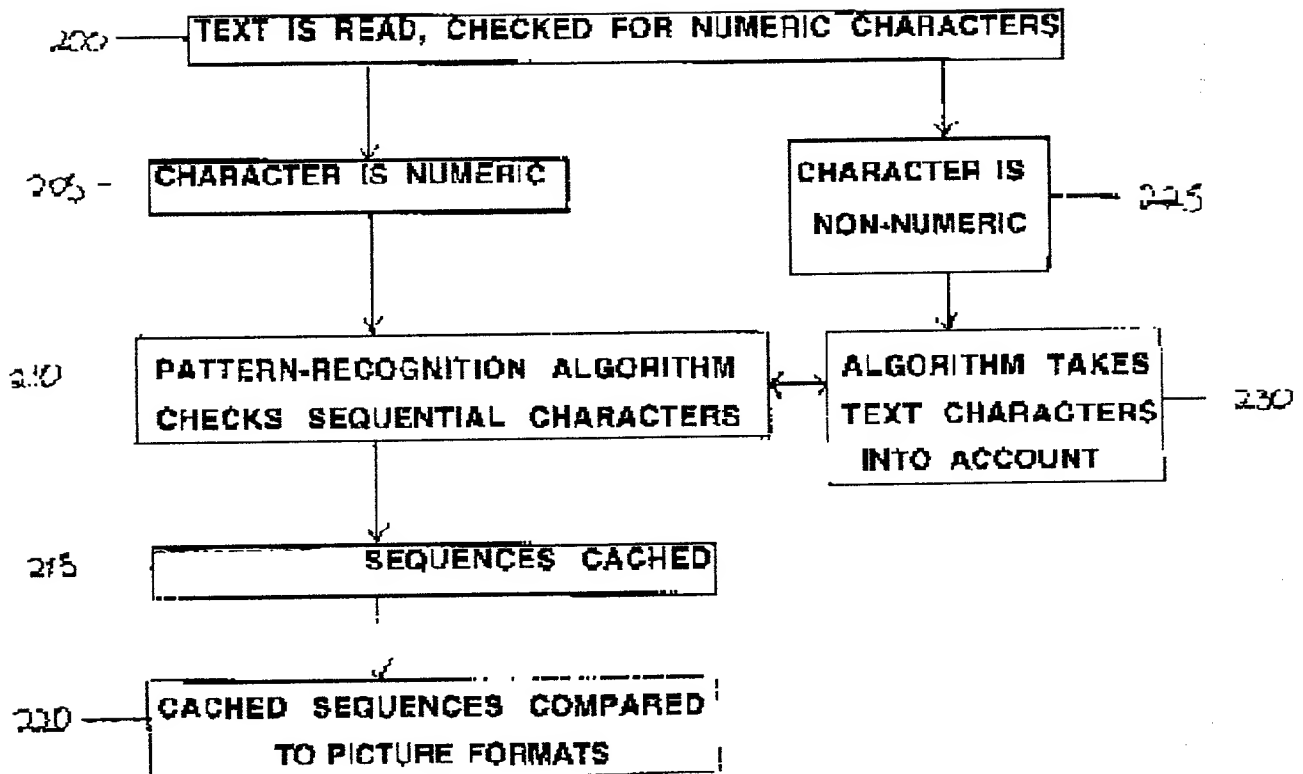


Fig. 2

1. χ^2 of goodness of fit	
1.1 χ^2 of goodness of fit	1.1
1.2 χ^2 of goodness of fit	1.2
1.3 χ^2 of goodness of fit	1.3
1.4 χ^2 of goodness of fit	1.4
1.5 χ^2 of goodness of fit	1.5
1.6 χ^2 of goodness of fit	1.6
1.7 χ^2 of goodness of fit	1.7
1.8 χ^2 of goodness of fit	1.8
1.9 χ^2 of goodness of fit	1.9
2. χ^2 of goodness of fit	2.0
3. χ^2 of goodness of fit	3.0
4. χ^2 of goodness of fit	4.0
5. χ^2 of goodness of fit	5.0
6. χ^2 of goodness of fit	6.0
7. χ^2 of goodness of fit	7.0
8. χ^2 of goodness of fit	8.0
9. χ^2 of goodness of fit	9.0
10. χ^2 of goodness of fit	10.0
11. χ^2 of goodness of fit	11.0
12. χ^2 of goodness of fit	12.0
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94. χ^2 of goodness of fit	94.0
95. χ^2 of goodness of fit	95.0
96. χ^2 of goodness of fit	96.0
97. χ^2 of	

My residence, post office address, and citizenship are as stated below next to my name;

METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

Prior Foreign Application(s)

Number	Country	Day/Month/Year Filed
--------	---------	----------------------

Number	Country	Day/Month/Year Filed
--------	---------	----------------------

MICHAEL A. GLENN, Reg. No. 30,176
LAURIE J. MINTZ, Reg. No. 35,957
DONALD M. HENDRICKS, Reg. No. 40,355

MICHAEL A. GLENN, P.O. Box 7831, Menlo Park, CA 94026

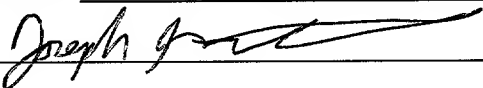
I hereby claim the benefit under Title 35, United States code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Ser. No. _____ Filing Date _____ Status: Patented, Pending, Abandoned _____

=====

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: JOSEPH GIORDANO III

Inventor's signature  5-30-97
Date

Residence 205 Belmont, Redwood City, California 94061

Post Office Address Same

Citizenship United States of America

08968216:060397
46090:9729980

Applicant or Patentee: Joseph Giordano III

Serial No.: _____ Filing Date: Herewith

Patent No.: _____ Issued: _____

For: **METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING
TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE**

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
37 CFR 1.9(f) and 1.27(b) - SMALL BUSINESS CONCERN

I hereby declare that I am:

() the owner of the small business concern identified below:

(X) an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN InfoGear Technology Corporation

ADDRESS OF CONCERN 1775 Woodside Road, Suite 100, Redwood City, CA 94061

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3 - 18 and reproduced in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time, or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled: **METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE** by inventor(s) Joseph Giordano III described in:

(X) the application filed herewith

() application serial no. _____, filed _____

() patent no. _____, issued _____

If the rights held by the above-identified small business concern are not exclusive, each individual, concern, or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than an inventor, who could not qualify as a small business concern under 37 CFR 1.9(d), or by any concern that could not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

() no such person, concern, or organization

() persons, concerns, or organizations listed below*

* NOTE: Separate verified statements are required from each named person, concern, or organization having rights to the invention averring to their status as small entities (37 CFR 1.27).

46099-9729980

FULL NAME _____

ADDRESS _____

() INDIVIDUAL () SMALL BUSINESS CONCERN () NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

() INDIVIDUAL () SMALL BUSINESS CONCERN () NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Robert C. Marshall

TITLE OF PERSON OTHER THAN OWNER President and CEO

BUSINESS ADDRESS OF PERSON SIGNING 1775 Woodside Road, Suite 100

Redwood City, California 94061

SIGNATURE Robert C. Marshall DATE 5-30-97

46090" 97200000

Applicant or Patentee: JOSEPH GIORDANO III

Serial No.: _____ Filing Date: Herewith

Patent No.: _____ Issued: _____

For: **METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING
TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE**

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
37 CFR 1.9(f) and 1.27(b) - INDEPENDENT INVENTOR

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled:

**METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING
TELEPHONE NUMBERS WHICH APPEAR ON A WEB PAGE**

described in:

☒ (X) the application filed herewith

☐ () application serial no. _____, filed _____

☐ () patent no. _____, issued _____

I have not assigned, granted, conveyed, or licensed and am under no obligation under contract or law to assign, grant, convey, or license any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

☒ (x) no such person, concern, or organization

☐ () persons, concerns, or organizations listed below*

* NOTE: Separate verified statements are required from each named person, concern, or organization having rights to the invention averring to their status as small entities (37 CFR 1.27).

FULL NAME _____

ADDRESS _____

☐ () INDIVIDUAL ☐ () SMALL BUSINESS CONCERN ☐ () NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

☐ () INDIVIDUAL ☐ () SMALL BUSINESS CONCERN ☐ () NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name: JOSEPH GIORDANO III



Signature of Inventor

5-30-97

Date

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